

NEW SPECIES OF *RHOGOSANA* AND *PONANA*, (HOMOPTERA:CICADELLIDAE) FROM CENTRAL AND SOUTH AMERICA¹

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ABSTRACT: Two new species of *Rhogosana*, *R. fosteri* n.sp. (Bolivia) and *R. amazona* n.sp. (Brazil), and three new species of *Ponana*, *P. balloui*, n.sp. (Venezuela), *P. ornatella* n.sp. (Brazil) and *P. areya* n.sp. (Mexico) are described.

The genus *Rhogosana* was described by Osborn (1938). DeLong and Freytag treated the genus (1971). Three species have since been described by DeLong (1975). The genus *Ponana* was described by Ball (1920). DeLong and Freytag reviewed the genus (1967). New species have been added since by DeLong and Martinson (1973) and DeLong and Kolbe (1974). Two closely related species of *Rhogosana* and three species of *Ponana* are described in this paper. All type specimens are in the DeLong Collection, the Ohio State University.

Rhogosana fosteri n. sp.

(Figs. 1-6)

Length of male 13 mm, female unknown. Crown broad, thin, short, more than twice as wide between eyes, at base, as length at middle. Color, crown pale brownish with a few darker areas, especially along margin. Pronotum with median third, anterior to caudal margin darker brownish, widened caudally to width of scutellum. Lateral third, each side, yellowish. Scutellum mostly dark brown with a little yellow coloring in basal angles and along anterior margin. Forewings dull yellowish with small irregular dark brown markings mostly between veins. Veins mostly pale brownish.

Male genital plates almost four times as long as wide at middle, apices narrowed caudally and rounded. Style long and narrow, curved dorsally at apex which is slightly enlarged, blunt, bearing spines on ventral margin near apex. Acdeagal shaft bearing two apical processes which are slightly more than half length of shaft and extend basad. Paraphyses extending two-thirds distance to apex of shaft. Pygofer with a produced, rounded protrusion near dorsal margin.

Holotype male, Sta. Cruz Exper, Sta. Saavedra, Bolivia 2-IV-1979 at trap light. D. Foster, V. Gonzales, I. Caballero colls.

¹Received September 24, 1980

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I take pleasure in naming this species for Dr. Donald R. Foster.

R. fosteri is related to *R. aldeia* DeL. and can be separated by the much shorter aedeagal apical processes, which extend laterally, and the more produced apex of the aedeagal shaft.

Rhogosana amazona n. sp.

(Figs. 7-11)

Length of male 12.5 mm., female 13 mm. Crown broadly rounded, more than twice as broad at base, between eyes, as median length. Color, crown yellow with three broad, longitudinal black stripes, one at middle and one each side between ocellus and eye. Pronotum yellow with a broad longitudinal brown stripe on median third. Scutellum yellow with brown basal angles and a medial brown longitudinal stripe. Forewings dull yellowish, claval and apical portions with brown areas.

Female seventh sternum roundly, concavely excavated one-third distance to base each side of a broad, median lobe, half the width of segment.

Male genital plates four times as long as width at middle, apex rounded. Style with apical third of blade narrowed, apex curved dorsally, slightly enlarged. Aedeagal shaft bearing a pair of short apical processes, one-fourth length of shaft, which extend basally. A pair of short slender paraphyses extend to two-thirds length of shaft. Pygofer with a basal process extending caudally.

Holotype male Igarape, Acu, Faz B. Susesso, Brazil, Sept. 12, 1964, Apol. Sousa. Paratype female Belem, MPEC, Brazil, July 16, 1973; 1 female Ammanaus Res. Ducek, Brazil, W.L. Overall coll.

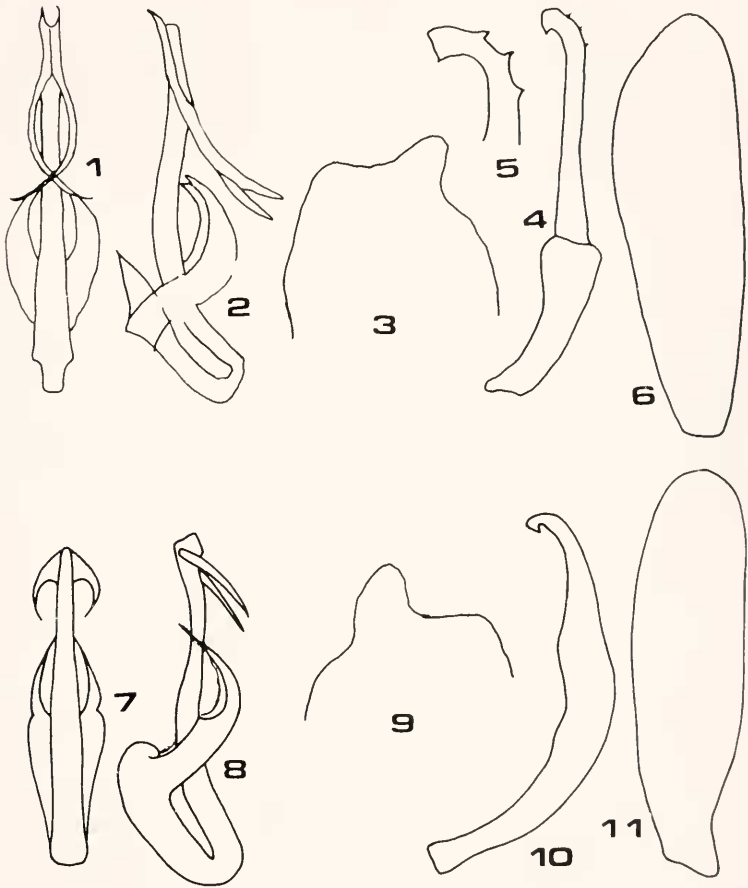
R. amazona is related to *R. aldeia* DeL. and can be separated by the blunter apices of the style and by the broader basal portion of the paraphyses.

Ponana balloui n. sp.

(Figs. 12-15)

Length of male 7.5 mm., female 8.5 mm. Crown broadly rounded more than half as long at middle as wide at base between eyes. Ocelli equidistant between eyes and median line. Color, dull yellow tinged with brown. Crown with 4 black spots, one just in front of each ocellus near apex and one behind each ocellus near base. Pronotum with numerous reddish brown flecks on disc. Scutellum with anterior portion a little darker brownish than apical half. Forewings dull yellowish with a pair of small dark brown spots on terminus of first pair of claval veins at commissure and a pair of larger spots at apex of second pair of claval veins. Numerous dark brown spots along costa, longer spots at apex of apical veins, cross veins of first antepical cell and fourth apical cell. Numerous irregular small brown spots scattered over wing.

Female with posterior margin of seventh sternum broadly angularly excavated $\frac{1}{3}$ distance to base with a slight notch at middle.



Figs. 1-6 *Rhogosana fosteri* n. sp. 1. aedeagus ventrally, 2. aedeagus laterally, 3. pygofer laterally, apical portion, 4. style laterally, 5. style laterally, apical portion enlarged, 6. plate ventrally. Figs. 7-11 *R. amazona* n. sp. 7. aedeagus ventrally, 8. aedeagus laterally, 9. pygofer laterally, apical portion, 10. style laterally, 11. plate ventrally.

Male genital plates narrow, broadened dorsoventrally at $\frac{2}{3}$ their length then narrowed to form slender apices which curve dorsally. Aedeagal shaft slender, bearing a pair of subapical processes which extend apically along each side of apex and curve slightly inwardly and apically. Paraphyses slender, arising near base and extending to apex of shaft. Apical fifth enlarged bearing a pointed tooth at base of enlarged portion, which is concavely rounded on inner margin and is curved inwardly and pointed apically.

Holotype male, Caracas Venezuela XII-1-'39 C.H. Ballou coll., from Avacado flowers.

P. balloui is related to *P. pana* DeL. and Frey., and can be separated by the 4 black spots on the crown and by the more prominent apical processes at the apex of the aedeagal shaft.

Ponana ornatella n. sp.

(Figs. 16-17)

Length of female 7 mm., male unknown. Crown broadly rounded, two-thirds as long at middle as width at base between eyes. Ocelli as close to eyes as to median line and on anterior portion of crown. Color, crown yellow tinged with brown, with a large round black spot behind each ocellus, near base. Pronotum without spots, with pale brownish areas along anterior margin and behind eyes. Scutellum dull yellowish with dark brown basal angles. Forewings with a pale yellowish margin, bordered by dark brown spots and lines, on anterior margin along scutellum and for a short distance along commissure. A series of dark brown short lines, mostly portions of black veins, form a diagonal, broken line, extending from apex of claval suture to median portion of costa. The portion of the wing cephalad to this line is dull yellow opaque, the caudal portion of the forewing is pale yellow subhyaline. Veins and cross veins of apical cells, dark brown.

Female seventh sternum with posterior margin slightly roundly produced, almost truncate.

Holotype female, Serra Lombard, Limoa, Brazil VIII-24-1961, J. & B. Bechyne colls.

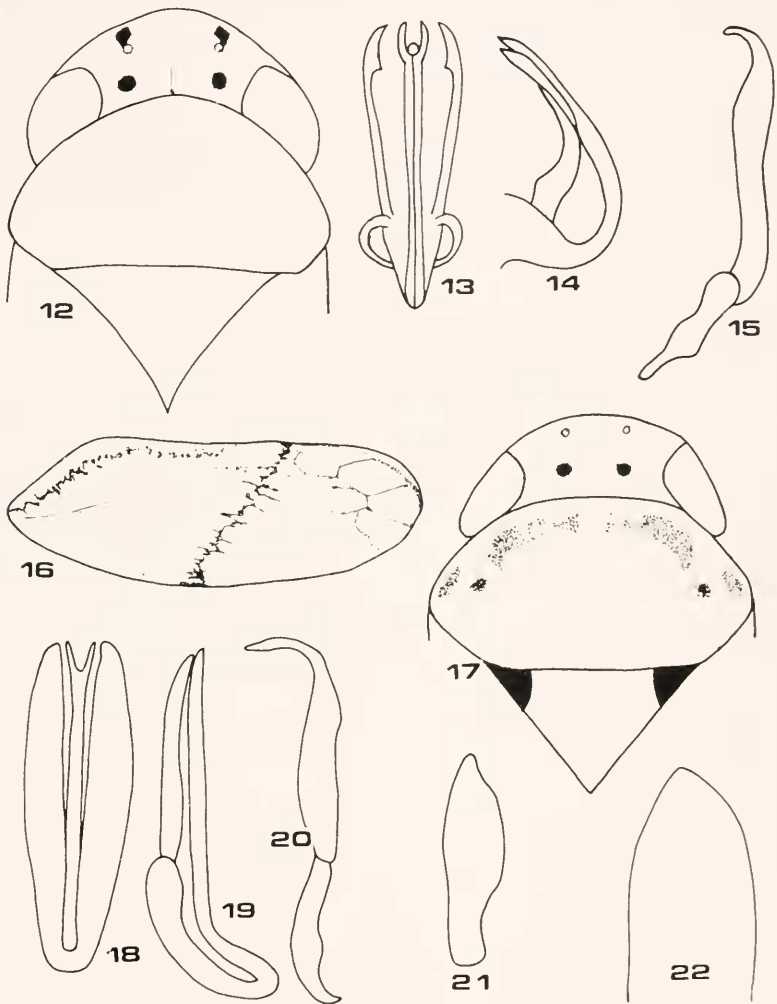
The color pattern of this species is distinct and will separate it from all described species in *Ponana*.

Ponana areya n. sp.

(Figs. 18-20)

Length of male 7 mm., female 8 mm. Crown $\frac{3}{5}$ as long at middle as basal width between eyes. Ocelli closer to anterior than to posterior margin and equidistant between eyes and median line. Color, pale grayish yellow, pronotum with four round black spots near posterior margin. One behind each ocellus and one posterior to each eye. A black spot on base of each forewing at humeral angle of pronotum.

Female seventh sternum with posterior margin shallowly concavely rounded each side of slightly produced median third, which is slightly notched at middle.



Figs. 12-15 *Ponana balloui* n. sp. 12, head and pronotum dorsally, 13, aedeagus ventrally, 14, aedeagus laterally, 15, style laterally. Figs. 16-17 *P. ornatella* n. sp. 16, forewing, 17, head and pronotum dorsally. Figs. 18-22 *P. areya* n. sp. 18, aedeagus ventrally, 19, aedeagus laterally, 20, style laterally, 21, plate ventrally, 22, pygofer laterally, apical portion.

Male genital plates almost four times as long as width at middle, apex narrowed, bluntly pointed. Style broadened on median portion, apical fifth narrowed and bent laterally. Aedeagus with shaft broadly U-shaped, notched at apex. Paraphyses broad, blunt at apex, extending to apex of shaft. Pygofer narrowed at apex and rounded.

Holotype male, 2 mi. E. Le Huerta, Baja Calif., Mexico, Sur. X-9-68, at black light, E.L. Sleeper and F.J. Moore coll. Paratypes: 1 male, 2 females same data as holotype.; 11 males and 1 female, 2 ml. N.W. El Triunfo, 1900 ft. el., Baha Calif., Mex. X-10-68; 1 male and 1 female same except 7.5 mi. W. 1600 ft. el. X-11-68; 1 male & 1 female La Burrera, 1800 ft. el. X-18-68; 1 female 2.5 mi. S.E. Valle Perido, 2000 ft. el., X-15-1968; 5 females & 2 males mi. E. Casas Viejas, 800 ft., X-27-68; 2 males & 1 female 7 mi. W. of Santiago 1600 ft. el. X-30-68. All paratypes were collected in Baja California, Mexico.

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